



Shenzhen Xuanan Lighting Co., Ltd

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PRODUCT SPECIFICATION

60mm RGB Pixel Cabochon Light

Model No.: XXA-6018-360D





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1. PRODUCT DESCRIPTION

The SJ-6018-360D is a high-brightness 60mm RGB pixel LED light designed for both indoor and outdoor applications. Featuring 18× SMD5050 RGB LEDs with 360° beam angle, powered by DC24V at 4.32W max per unit. Controlled by GS8206 or UCS2903 IC chips, this pixel light supports full-color addressable effects including running water, chasing, and scanning. IP66 waterproof rating ensures reliable performance in various weather conditions.

2. KEY SPECIFICATIONS

Model No.	XXA-6018-360D
Diameter	60 mm
Installation Hole Size	19 mm
Light Source	18× SMD5050 RGB LEDs
LED Layout	Front 12 LEDs + Back 6 LEDs
Beam Angle	360°
IC Chip	GS8206 / UCS2903 (full color)
Operating Voltage	DC24V
Power Consumption	4.32W max per unit
Housing	Transparent PC cover
Waterproof Rating	IP66
Lifetime	≥50,000 hours
Working Temperature	-20°C ~ +50°C
Storage Temperature	-30°C ~ +70°C



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3. DIMENSIONS

Parameter	Value
Bulb Diameter	60 mm
Installation Hole Diameter	19 mm
Cover Options	Linear transparent / Spiral transparent
Refer to dimension diagram for complete measurements.	

4. ELECTRICAL & CONTROL

Parameter	Specification
Input Voltage	DC24V (required)
Voltage Warning	Do not exceed 25V or short circuit – will damage the pixel
Control Protocol	SPI (GS8206 / UCS2903)
Control Features	Individual pixel control – addressable
Supported Effects	Running water, chasing, scanning, static colors, animations
Connector Type	3-pin / 4-pin JST (male & female)
Optional Connector	Waterproof connector
Pin Configuration (3pin)	DAT, DC24V+, GND
Pin Configuration (4pin)	DAT 1, DAT 2, DC24V+, GND

5. FEATURES

◆ 5.1 High Brightness & Full Color

18× SMD5050 RGB LEDs deliver vibrant, high-intensity illumination with full-color addressable control.

◆ 5.2 360° Beam Angle

Spherical transparent design provides uniform light output from all angles with no dark spots.

◆ 5.3 Dual Cover Options

Available in linear transparent or spiral transparent cover designs for different visual effects.

◆ 5.4 IP66 Waterproof Protection

Sealed with silicone glue protection – suitable for outdoor use in rain, dust, and high-humidity environments.

◆ 5.5 Easy Installation

Designed for 19mm drill hole mounting. Aluminum groove available for secure wall mounting.



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◆ 5.6 Robust Construction

UV-resistant, thermostable, and cold-resistant PVC shell combined with PCB board and connector cables.

◆ 5.7 High Performance

Low power dissipation, long lifespan ($\geq 50,000$ hours), low voltage operation, minimal lumen depreciation.

◆ 5.8 Controller Compatibility

Compatible with SD controllers, DMX controllers, Artnet, and other SPI-based systems.

6. INSTALLATION ACCESSORIES

<u>Accessory</u>	<u>Description</u>
Shell & Nut	PC housing with mounting hardware
Caps	Two types of end caps available
Aluminum Groove	Optional mounting channel – color and size customizable
Connectors	Waterproof or non-waterproof (3-pin/4-pin JST)
Installation Method:	Drill 19mm hole

- ◆ Insert aluminum groove (optional) and screw onto wall
- ◆ Mount pixel light into hole
- ◆ Connect daisy-chain via male/female connectors

7. SYSTEM SCHEMATIC DIAGRAM

Connection Order:

Controller (SD/DMX/Artnet) → DC24V Power Supply → XXA-6018-360D Pixel String

Important Notes:

- ◆ Power supply must be DC24V
 - ◆ Do not exceed 25V input voltage
 - ◆ Maximum run length depends on power supply capacity – contact technical support for guidance
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8. APPLICATIONS

- Amusement parks and theme parks
- Shopping malls and retail displays
- Street and building facade lighting
- Billboards and signage
- Window displays
- Landscape and architectural accent lighting
- Entertainment venues (clubs, KTV, bars)

9. CUSTOMIZATION OPTIONS:

- Cover type (linear transparent / spiral transparent)
- Connector type (3-pin/4-pin JST / waterproof connector)
- Aluminum groove color and size
- String length and pitch spacing

10. CERTIFICATIONS & COMPLIANCE

Parameter	Specification
Lifetime	≥50,000 hours
Waterproof Rating	IP66
Operating Temperature	-20°C ~ +50°C
Storage Temperature	-30°C ~ +70°C
Certifications	Contact manufacturer for CE, RoHS, UL, etc.

11. DIMENSION (mm):

